PSION ORGANISER II
The machine that thinks with you

Information on tap
EVERYTHING YOU NEED TO KNOW...

IT'S A DIARY THAT REMINDS YOU...

You can record appointments against the relevant date and time not just for the current year but for future years too. Like any other diary, you can browse through the entries or go straight to a specific date. Unlike an ordinary diary, Psion Organiser II can be set to turn itself on and buzz you up to an hour before an appointment—and show you who, where and when on the screen.

MAY: 24 TUE: 11.30
P. DUKE at Psion

IT'S 8 REGULAR ALARM CLOCKS...

You can set up to eight alarms to ring at any time during the day or week. The alarms can be programmed to ring at weekly, daily or hourly intervals as you wish—for example, for morning calls or regular weekly appointments.

MAY: 24 TUE: 12.30
ALARM

IT'S A FIND-IT-FOR-YOU...

Psion Organiser II will store all your vital personal information, such as names, addresses, telephone numbers and business contacts. Just type in a small detail as a clue and the powerful built-in cross-referencing system will recall the item you require in less than a second and automatically scroll it across the screen.

J. SHORT, Doctor
01-093-4321

IT'S A CLEVER CALCULATOR...

Psion Organiser II does for calculators what calculators did for the slide rule. Calculations are displayed on the screen as they are performed, so that entries can be checked and changed if you want to carry out several similar ("What-if") calculations. It has twelve-digit calculation accuracy, ten memories and full mathematical and scientific functions. The number of decimal places required in the answer can be set at any level from 0 to 12.

M1 + 3.6 * sin(\pi/4) = 2.5455844127

IT'S ADAPTABLE...

Psion Organiser II contains an extremely powerful but easy to use programming language (OPL) allowing simple and sophisticated programs to be written to meet your own or your company's particular requirements. The programs can be stored either in the built-in memory, or on an optional Datapak, for repeated use later. OPL's many functions include accessing and processing data on up to 96 files held in the machine or on each Datapak.

SUMMARY SPECIFICATIONS—SOFTWARE (STANDARD IN ROM)

GENERAL
FUNCTIONS
Functions selected from menu using cursor. The top menu can be rearranged and user-created items added.

DATA STORAGE
DEVICES
Internal (STDO), Datapaks (OPL—optional)

MEMORY
RETENTION
Internal—Indefinite with battery or mains adapter connected. 2 minutes allowed for battery change. Datapaks—Indefinite. Can be removed without loss of data.

TOP-LEVEL
MENU
FIND, SAVE, DIARY, DATE, PRLG, ERASE, ALARM, TITLE, INFO, COPY, REOT, OFF.

FILING
SAVE
Save records on data storage devices (Datapaks, internal). Entries can be edited, and are automatically included in searches for characters, maximum 128 characters and 15 lines per record.

FIND
Finds records which match given search text. Repeated key press lists records one by one. Record on screen can be edited and saved.

ERASE
COPPY
Finds records as FIND. Prompt to confirm deletion.
Copy data files from one data storage device to another.

INFO
ACCESS TIME
0.5 second average for 32k of data.

DIARY
DISPLAY
Tabular form: Days horizontally. Hourly appointments split vertically. One time slot displayed on screen.

LIST
SEARCH
GOTOday and time. FIND entry with given search text.

ALARM
Remind alarm set 0-30 minutes before appointments.

TODAY
FILES
High-speed entries to back date.
SAVE and RESTORE diary files from data storage devices. Directory of diary files.

TIME/ALARM
CLOCK
CALCULATOR
Hour, minute, seconds.
Year, month, date, day.
Up to 8 alarms may be set, each with weekly, daily or hourly repeat.

OPERATORS
FUNCTIONS
12 digits, +, /, 
Any number of brackets.
50 mathematical, scientific and user-programmed functions.

MEMORY
DISPLAY RESULT
10 store (+, -, overwrite and recall).
User definable from 0.5-12 decimal places.

IT'S A CLOCK AND CALENDAR...

Psion Organiser II has an inbuilt clock showing weekday, date, month, year, hours, minutes and seconds. And you can change the battery without losing the settings. The clock also monitors and controls the alarm and diary functions.

WED 12 NOV 1986
08:25:18

IT'S AN INDEXED FILING CABINET...

Personal and business information is cross-referenced to answer questions such as "Which restaurants do I know in Paris," "What do we stock 'purple' for?" or "Which of my cassette are by Beethoven?". Customers and stock records, suppliers lists, book catalogues and any other reference information can be stored and entries selected quickly and easily on particular criteria.

WED 12 NOV 1986
08:25:18

AND IT TELLS YOU ABOUT ITSELF...

A status report is available at any time on the amount of data and diary information currently stored in the machine and on Datapaks, and the quantity of internal memory still free.
PLUG IN EXTRA PROGRAMS

IT’S A FINANCIAL ANALYST...

Psion Organizer II is built to run plug-in applications programs. For example, the Finance Pack, in addition to all the normal financial calculations like discounted cash flows, interest calculations, amortization, mortgage repayments and APV, allows you to record, monitor and analyse your expenses and payments as they are incurred. Each item is automatically dated and logged for later analysis and printing.

ITEM: TAXI-FARE
AMOUNT: 5.28

IT’S A REFERENCE LIBRARY...

With the huge amounts of memory available on Psion Organizer II you can at least have electronic reference books at your fingertips. Check your spelling, for example, with the Concise Oxford Spelling Checker, just type in the first three or four letters to define the word and Psion Organizer II will display the correct spelling on the second line of the screen. Many such reference applications are planned for release shortly.

IT’S A BANK MANAGER

The Bank Account facility within the Finance Pack allows you to record bank transactions as they take place and provides you with a detailed bank record and current balance at all times. Standing Orders are automatically applied on the correct day each month. Comprehensive bank statements can be printed out and particular transactions can be traced simply by keying in the date, item or amount.

POLYNOMIAL ROOT = 1.34239

IT’S A MATHEMATICIAN...

Solve Bessel functions, polynomial equations, quadratics, the solution of matrices, Eigenvalues, integration under a curve, as well as more standard statistics calculations, correlation coefficients, confidence levels, 'Chi-squared' and more with the optional plug-in Maths Pack.

IT’S A COMPUTER...

... DESIGNED FOR A THOUSAND APPLICATIONS

The trouble with computers is that they are of no use to anyone. They are useless. But with software, they will solve thousands of problems. So the useful computers are those which are designed to run software applications. That is why we have built the features of a desk-top PC in probably the most powerful hand-held computer yet devised... up to 384k of on-board memory... ready-to-use software built-in... powerful programming facilities for your own specific needs... plug-in program packs... stores to store information and load programs... plug-ins in peripherals and links to office-bound systems... all for a mere fraction of the price of a desk-top computer.

Rugged, reliable and battery powered, it can be carried in your pocket to be used whenever and wherever you are. You need no computer experience, for Organizer II comes with built-in menu-driven programs. And that’s just the start. You can program Psion Organizer II for your particular needs by using the built-in OPL programming language and run ‘off-the-shelf’ software by plugging in optional program packs. Programs can be saved for later repeated use and the most frequently used can even be inserted on the top-level menu for quick and easy access.

Expanding Psion Organizer II’s internal memory up to 304 Kilobytes is as easy as plugging in ‘Datapaks’ or program packs into the thumb-sized slots in the back of the machine. These packs perform a similar role to floppy disks on a desk-top computer. Datapaks provide mass storage of data and programs with exceptional data security, which means that your information is secure even when the packs are removed from the machine. Datapaks are available in a variety of sizes from 8 Kilobytes (with a capacity of 8000 characters) up to 64 Kilobytes for model CM, and 128 Kilobytes for Model XP. In other words 160 Kilobytes (model CM) and 304 Kilobytes (model XP) can be present in Psion Organizer II at any one time — phenomenal for a computer of any size, let alone one held in the hand.

SUMMARY SPECIFICATIONS — HARDWARE

<table>
<thead>
<tr>
<th>PHYSICAL</th>
<th>WEIGHT</th>
<th>PROCESSOR</th>
<th>CPU</th>
<th>SPEED</th>
<th>DISPLAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>With protective sliding case (closed)</td>
<td>Length 142mm, Width 79mm, Depth 22mm.</td>
<td>230gms (without battery)</td>
<td>8-bit CMOS 68000, 80 pin surface-mounted (Motorola family)</td>
<td>Clock speed 3.3MHz</td>
<td>2 line by 16 character, dot-matrix LCD. 30 character set from keyboard. 8 graphics user-defined characters. Total of 255 characters accessible using built-in OPL programming language</td>
</tr>
<tr>
<td>TOTAL</td>
<td>ALPHA</td>
<td>NUMERIC</td>
<td>CUSICORS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26 keys</td>
<td>26 upper and lower case</td>
<td>16 numeric, 16 operator and punctuation.</td>
<td>4 keys</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERNAL MEMORY</td>
<td>RAM</td>
<td>MASS STORAGE</td>
<td>DRIVES</td>
<td>DATAPAK</td>
<td></td>
</tr>
<tr>
<td>32K Bytes (Model XP), 24K Bytes (Model CM)</td>
<td>16K Bytes (XP), 8K Bytes (CM).</td>
<td>32K Bytes (Model XP), 16K Bytes (Model CM).</td>
<td>Solid-state drives built-in, which take Datapaks or program packs.</td>
<td>Maximum capacity 128 Kilobytes (Model XP). 64 Kilobytes (Model CM).</td>
<td></td>
</tr>
<tr>
<td>OPERATING TEMP</td>
<td>MEDIUM</td>
<td>INTERFACING</td>
<td>AUDIO</td>
<td>POWER</td>
<td></td>
</tr>
<tr>
<td>0°C to 40°C</td>
<td>Read/Write EPROM — Datapak: 100 Kibit/sec.</td>
<td>RS 232C, 110 BPS, parallel, serial, centronics, 3.5 volt (Models XP, CM).</td>
<td>11 Lin. 8 KHz. software controlled.</td>
<td>50 microamps to 800mW, depending on operating mode.</td>
<td></td>
</tr>
<tr>
<td>CONTACTS</td>
<td>CASE</td>
<td>WARRANTY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gold-plated.</td>
<td>Stamping protective cover.</td>
<td>One year (Model CM) Full details supplied with Organiser.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**EASILY PROGRAMMED**

Built into Psion Organiser II is an extremely powerful operating system and programming language (OPL) designed to enable individuals and companies to find solutions to their specific problems. Psion Organiser II offers the power and flexibility for any needs from simple programs for everyday use to complex applications such as stock movement and credit card control. Organiser II is supplied with a comprehensive manual to enable both novices and experts alike to develop their own programs quickly and easily.

The high-level, structured programming language built into the ROM of the Organiser is essentially designed from BASIC, but developed further using modern structured programming concepts. Procedure-based, the language is designed to be easy, comprehensive, and very fast. For example, the first 100 prime numbers can be obtained 3 times faster than the same procedure written in BASIC on an IBM PC. It includes integer handling, real arithmetic, variables and string and numeric arrays.

To enhance Psion Organiser II's already impressive data handling capabilities, the language includes full database facilities which allow the creation of files, the definition of fields and records, the searching and sorting of records and so on. This makes Organiser II's programming language a powerful data processing and fully featured database handling language. These facilities also allow complete software control of the screen, keyboard, peripherals and three devices (internal memory, two Datapak devices).

Psion Organiser II's operating system is so soft that the top level menu can be rearranged, added to, and functions not needed deleted. Applications can be called or booted from the Datapak drive. Entries to machine code are also allowed. The operating system supports a wide range of peripherals through the top port of Organiser II.

The programming language is supported in Organiser II by an editor program, LOAD and SAVE and the cataloging of programs. Programs can be written with these aids directly on the Organiser, tested, debugged and run within the machine. In addition, for very large applications, Psion provides an emulator running on an IBM PC XT or AT so that the program, once written and tested, can be downloaded into Organiser II.

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**SUMMARY SPECIFICATIONS - OPL PROGRAMMING LANGUAGE**

<table>
<thead>
<tr>
<th>LANGUAGE</th>
<th>PROCEDURE-BASED, BASIC-LIKE, EXTENSIBLE.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSTRUCTS</td>
<td>IF, ELSE, ELSEIF, ENDIF, DO UNTIL, WHILE, ENDDD, BREAK, CONTINUE, GOTO</td>
</tr>
<tr>
<td>VARIABLES</td>
<td>LOCAL, GLOBAL, SINGLE, ASSEMBLY, REAL, INTEGER, STRING, FLOAT</td>
</tr>
<tr>
<td>COMMANDS</td>
<td>AT, LV, EXIT, GOTO, CALL, RETURN, DATA, TIMES, EXIT</td>
</tr>
<tr>
<td>OPEN/CLOSE</td>
<td>OPEN, CLOSE, READ, WRITE, DELETE, MODIFY</td>
</tr>
<tr>
<td>POSITION</td>
<td>POSITION, RENAM, UPDATE, USE</td>
</tr>
</tbody>
</table>
| FUNCTION | FIND, DEL, FREE, COUNT, SPACE, DISK, PRINT, RUN, 
|            | ENQ, NUL, DATE, TIME, STOP, CLEAR, 
|            | END, GOSUB, GOTO, RETURN, LABEL |

**SUMMARY SPECIFICATIONS - STANDARD PERIPHERALS**

<table>
<thead>
<tr>
<th>DATAPAKS</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8Kbytes, 16K, 32K, 64K, 128K</td>
<td></td>
</tr>
</tbody>
</table>

| SIZE |
| Length: 230mm, Width: 175mm, Height: 13mm |
| Fits into a 10mm slim slot |

| RS232 LINK |
| COMPUTER |
| PRINTERS |
| MODEM |

| BAR CODE READER |
| TYPE |
| INTERFACE |
| CODES |
| MAGNETIC CARD READER |
| TYPE |
| STANDARD |
| INTERFACES |
| MAIN ADAPTOR |
| POWER |
| INTERFACE |

Psion Organiser II has a standard parallel port at the top of the machine to allow for a wide variety of devices to be attached for communications and specialist applications. Once the peripheral has been connected, additional commands which access the code from the peripheral are activated automatically within Organiser II.

The portable Organiser II is expanded into a complete system simply by plugging in the optional Rs232 Link communications cable and connecting it to printers, computers and modern equipment with the industry standard Rs232 port. Records and files can be transferred in either direction from the Organiser to the printer, computer or modem and from the computer or modem to the Organiser. The communications software allows error-free transmission of files over telephone lines via a modem. This system enables Psion Organiser II to be used as a portable database, holding information from a central computer or for collecting and transferring data to other systems. Additionally, it can communicate with the following services such as Telecom Gold to access the telephone network, for example. Moreover, you can print, send or receive information from the OPL programming language.
DEDICATED TO YOUR BUSINESS

Bar Code Reader
Connected to the top of Model XP, this optional extra allows bar code data to be read into Psion Organiser II for storage and processing. The data can be read from within a program so that data files can be structured or analysed for different needs.

Mains Adaptor
For heavy desk-top use, Psion Organiser II can be connected to the mains power supply using the optional Mains Adaptor. This plug into the peripheral port, and can still be used at the same time as other peripherals.

Magnetic Card Reader
This slots into the top peripheral port of Model XP and can be used to read information held on magnetic strips on credit cards, for example. By referring to data held on a Datapak, the magnetic card reader could be used for example to validate credit cards, check credit limits and expiry dates, and record transaction details on a Datapak for later transmission to a central computer.

For many corporate applications, Organiser II forms part of a complete system, which often requires the large-scale production of custom programs and the transmission of large amounts of data. To meet this demand Psion has designed and produced an IBM PC/XT/AT-based applications development system with an Organiser emulator and a range of associated equipment.

Copier 8
Copies Datapaks in bulk either from a master Datapak or directly from an IBM PC, XT or AT thus allowing the mass downloading of information or the mass reading and uploading of data. The copying process takes only four minutes to duplicate eight 32K Datapaks.

Formatter
Formats (erases) up to 2 Datapaks, and automatically switches off after 30 minutes. A formatting service is also offered by many dealers or by post to Psion.

Eraser 16
Holds up to 16 Datapaks and formats them completely within 10 minutes. Packs can be formatted over 100 times without their capacity or performance being affected.

Organiser Customisation
For very large-scale corporate or specialist applications, Psion Organiser II can be customised to the requirements of specific companies or end-users. The keyboard overlay, casing and packaging can be altered in certain applications. Psion offers a programming consultancy and implementation service based on agreed specifications. Contact the Sales department at Psion for further information.

Psion has a policy of continuous product development. Small modifications arising from this policy are not necessarily reflected in the contents of this brochure.

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